<u>AMENDMENTS TO THE CLAIMS</u>

1   1.   (Currently Amended) A document-generation process performed using a
2 computer system, the process comprising:
3 parsing a raw document to create an internal representation of the document;
4   reading a first-level transform from a transform database;
5   applying the first-level transform to the internal representation so as to create a
6   first-level document;
7   writing the first-level document to memory;
8   receiving a first request for a second-level document that depends from the first-
9   level document;
10   in response to the first request, reading a second-level transform from the
11   transform database;
12   <u>in response to the first request,</u> applying the second-level transform to the first-
13   level document so as to create a second-level document; and
14   writing the second-level document to memory.

1   2.   (Previously Presented)   A document-generation process as defined
2 in Claim 1, further comprising:
3   revising the raw document;
4   applying the first-level transform to the revised raw document so as to create a
5   revised first-level document;
6   writing the revised first-level document to memory; and
7   indicating that a then-existing second-level document is invalid.

1   3.   (Original)   A document-generation process as defined in Claim 2,
2 further comprising:
3   receiving a second request for the then-existing second-level document;
4   determining that the then-existing second-level document has been indicated
5   invalid;

6   applying the second-level transform to the revised first-level document so as to

7   create a revised second-level document; and

8   writing the revised second-level document to memory.

1   4.   (Previously Presented)   A document-generation process as defined

2 in Claim 1, further comprising:

3   receiving a request for a revised first-level transform;

4   revising the then-existing first-level transform;

5   applying the revised first-level transform to the raw document so as to create a

6   revised first-level document;

7   writing the revised first-level document to memory; and

8   indicating that the then-existing second-level document is invalid.

1   5.   (Previously Presented)   A document-generation process as defined

2 in Claim 4, further comprising:

3   receiving a second request for the then-existing second-level document;

4   determining that the then-existing second-level document has been indicated

5   invalid;

6   applying the second-level transform to the revised first-level document so as to

7   create a revised second-level document; and

8   writing the revised second-level document to memory.

1   6.   (Original)   A document-generation process as defined in Claim 1,

2 wherein a respective GID is assigned to each of the first-level document and the second-

3 level document.

1   7.   (Original)   A document-generation process as defined in Claim 1,

2 wherein the first-level document and the second-level document are timestamped and

3 wherein a document is deleted when a timestamp indicates that the document is stale.

1   8.   (Currently Amended) A method of generating customized versions of a

2 document using a computer system, the method comprising:

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3   storing the document in raw form;

4   parsing the document to create an internal representation of the document;

5   <u>receiving a request to generate a second-level document;</u> and

6   decomposing the document, wherein decomposing the document comprises

7   applying a first-level transform to the internal representation of the

8   document so as to create a first-level document and<u>, in response to the</u>

9   <u>request to generate the second-level document,</u> applying a second-level

10   transform to the first-level document so as to create [[a]] <u>the</u> second-level

11   document.

1   9.   (Previously Presented) A method as defined in Claim 8, wherein applying

2 a first-level transform and applying a second-level transform comprises applying

3 sequential transforms to the document.

1   10.   (Canceled)

1   11.   (Canceled)

1   12.   (Previously Presented)   A method as defined in Claim 8, wherein

2 decomposing the document comprises applying a third-level transform to the second

3 level document so as to create a third-level document.

1   13.   (Original)   A method as defined in Claim 8, wherein the document is

2 stored in raw XML form.

1   14.   (Previously Presented)   A method as defined in Claim 13, wherein

2 applying a first-level transform and applying a second-level transform comprises

3 applying sequential transforms to the document.

1   15.   (Previously Presented)   A method as defined in Claim 14, wherein

2 applying a first-level transform of the document stored in raw XML form comprises

3   applying a subscription-level transform to the internal representation of the document so

4   as to create a subscription-level document.

1   16.   (Previously Presented)   A method as defined in Claim 15, wherein

2   the subscription-level transform enables content filtering of the internal representation in

3   accordance with a user's request.

1   17.   (Previously Presented)   A method as defined in Claim 16, wherein

2   applying a second-level transform comprises applying an organization-level transform to

3   the subscription-level document so as to create an organization-level document.

1   18.   (Original)   A method as defined in Claim 17, wherein the

2   organization-level transform enables subscription-specific content filtering of a

3   subscription-level document.

1   19.   (Previously Presented)   A method as defined in Claim 18, wherein

2   decomposing the document comprises applying a presentation-level transform to the

3   organization-level document so as to create a presentation-level document.

1   20.   (Original)   A method as defined in Claim 19, wherein the presentation-

2   level transform generates an organization-specific document for end user presentation.

1   21.   (Original)   A method as defined in Claim 20, wherein the presentation-

2   level transform generates an HTML document or a text file for end user presentation.

3   22.   (Original)   A method as defined in Claim 21, wherein the subscription-

4   level transform is mandatory and the organization-level and presentation-level transforms

5   are optional.

1   23.   (Original)   A method as defined in Claim 8, wherein a transform is

2   applied to a document only as a result of an initial demand for a transformed document.

1   24.   (Original)   A method as defined in Claim 23, wherein the demand for a
2   transformed document is a client request.

1   25.   (Original)   A method as defined in Claim 24, wherein the demand for a
2   transformed document is a document publication process.

1   26.   (Original)   A method as defined in Claim 23, wherein transformed
2   documents are written to a cache.

1   27.   (Original)   A method as defined in Claim 26, wherein demands for a
2   transformed document, subsequent to the initial demand, are referred to the cache.

1   28.   (Currently Amended) A computer readable medium having data stored
2   therein to cause a data processing system to generate a data document according to a
3   process comprising:
4   storing a raw form of the document;
5   parsing the document to create an internal representation of the document; and
6   <u>receiving a request from a client computer system coupled to the data processing</u>
7   <u>system to generate a second-level document into a particular form;</u>
8   decomposing the document into [[a]] <u>the</u> form requested by <s>a recipient of the</s>
9   <s>document</s> <u>the client system</u>, wherein decomposing the document
10   comprises applying a first-level transform to the internal representation of
11   the document so as to create a first-level document and<u>, in response to the</u>
12   <u>request to generate the second-level document,</u> applying a second-level
13   transform to the first-level document so as to create a second-level
14   document.

1   29.   (Previously Presented)   A computer readable medium as defined in
2   Claim 28, wherein applying a first-level transform and applying a second-level transform
3   comprises applying sequential transforms to the document.

1   30. (Previously Presented) A computer readable medium as defined in
2 Claim 28, wherein the document is stored in XML form.

1   31. (Previously Presented) A computer readable medium as defined in
2 Claim 30, wherein the document stored in XML form is parsed by an XML parser to
3 create the internal representation.

1   32. (Previously Presented) A computer readable medium as defined in
2 Claim 31, wherein the internal representation level of the document is transformed to a
3 subscription-level document by applying a subscription-level transform to the internal
4 representation.

1   33. (Previously Presented) A computer readable medium as defined in
2 Claim 32, wherein application of the subscription level transform to the internal
3 representation so as to create a subscription-level document is required.

1   34. (Previously Presented) A computer readable medium as defined in
2 Claim 32, wherein the subscription-level document is transformed into an organization-
3 level document by applying an organization-level transform to the subscription-level
4 document.

1   35. (Previously Presented) A computer readable medium as defined in
2 Claim 34, wherein application of the organization-level transform to the subscription-
3 level document so as to create an organization-level document is optional.

1   36. (Previously Presented) A computer readable medium as defined in
2 Claim 34, wherein the internal representation of the document is decomposed to a
3 transform-level document only in response to a request for a transform-level document.

1   37. (Previously Presented) A computer readable medium as defined in
2 Claim 36, wherein transformed documents are written to a cache.

1   38. (Previously Presented) A computer readable medium as defined in

2 Claim 37, wherein an initial request for a transformed document causes decomposition of

3 the internal representation into the form requested and wherein subsequent requests for a

4 transformed document causes the transformed document to be retrieved from memory.

1   39. (Previously Presented) A computer readable medium as defined in

2 Claim 29, wherein the data document is generated according to a process comprising:

3   tracking the dependencies of a transformed document; and

4   regenerating the transformed document when any dependency related to the

5   document changes.

1   40. (Currently Amended) A computer readable medium as defined in Claim

2 39, wherein the document is generated according to a process comprising:

3   designating a cached version of the document invalid when any dependency

4   related to the document changes, and

5   regenerating the transformed document in response to a request ~~form~~ <u>for</u> the

6   document that is made after the dependency change.

1   41. (Previously Presented) A computer readable medium as defined in

2 Claim 40, wherein the document is stored in XML form.

1   42. (Previously Presented) A computer readable medium as defined in

2 Claim 39, wherein the document stored in XML form is parsed by an XML parser to

3 create the internal representation.

1   43. (Currently Amended) A computer readable medium as defined in Claim

2 42, wherein the internal representation level of the document is transformed to a

3 subscription-level document by applying a subscription-level ~~transfom1~~ <u>transform</u> to the

4 internal representation.

1   44.   (Previously Presented)   A computer readable medium as defined in
2 Claim 43, wherein application of the subscription level transformed to the internal
3 representation so as to create a subscription-level document is required.

1   45.   (Previously Presented)   A computer readable medium as defined in
2 Claim 43, wherein the subscription-level document is transformed into an organization-
3 level document by applying an organization-level transform to the subscription-
4 document.

1   46.   (Previously Presented)   A computer readable medium as defined in
2 Claim 45, wherein application of the organization-level transform to the subscription-
3 level document so as to create an organization-level document is optional.

1   47.   (Previously Presented)   A computer readable medium as defined in
2 Claim 45, wherein the internal representation of the document is decomposed to a
3 transform-level document only in response to a request for a transform-level document.

1   48.   (Previously Presented)   A computer readable medium as defined in
2 Claim 47, wherein transformed documents are written to a cache.

1   49.   (Canceled)

1   50.   (Canceled)

1   51.   (Canceled)

1   52.   (Canceled)

1   53.   (Previously Presented)   A method of generating customized versions
2 of a document using a computer system, the method comprising:
3   storing the document in a primitive form;

4   transforming the document from primitive form into an internal representation of

5   the document;

6   transforming the internal representation into at least one subscription-level

7   document, into a DEFAULT organization-level document and into at least

8   one user-specific organization-level document;

9   transforming the DEFAULT organization-level document into at least one

10   presentation-level document; and

11   transforming the user-specific organization-level document into at least one

12   presentation-level document.

1   54.   (Original)   A method of generating customized versions of documents

2 as defined in Claim 53, wherein the user-specific organization-level document is

3 transformed into at least two presentation-level documents.

1   55.   (Original)   A method of generating customized versions of documents

2 as defined in Claim 54, wherein the user-specific organization-level document is

3 transformed into an HTML presentation-level document and into a FLAT presentation-

4 level transform.

1   56.   (Original)   A method of generating customized versions of a document

2 as defined in Claim 53, wherein:

3   (i) the internal representation is transformed into a first subscription-level

4   document and into a second subscription-level document;

5   (ii) the first subscription level document is transformed into a subscription-level

6   specific DEFAULT organization-level document and into at least one

7   user-specific organization-level document; and

8   (iii) the second organization-level document is transformed into a subscription-

9   level-specific DEFAULT organization-level document.

1   57.   (Original)   A method of generating customized versions of a document

2 as defined in Claim 56, wherein the document is stored in XML form.

1   58.   (Currently Amended) A system for the generation of customized data

2   documents, the system comprising:

3   first database ~~means~~ for storing raw data documents;

4   first tabular means for storing document records;

5   an interface coupling the first database ~~means~~ to the first tabular means;

6   <u>a request interface to receive a document generation request, wherein the</u>

7   <u>document generation request indicates a particular document type;</u>

8   second database ~~means~~ for storing a compilation of transforms that enable an

9   internal representation of a document to be transformed into a first-level

10   document and that enable the first-level document to be transformed into a

11   second-level document<u>, wherein each transform is mapped to a particular</u>

12   <u>document type;</u>

13   <u>a document generator, coupled to the first and second databases and first and</u>

14   <u>second tabular means, and to the request interface, to generate the first</u>

15   <u>level document using at least one of the transforms and to generate the</u>

16   <u>second-level document using at least one of the transforms in response to</u>

17   <u>receipt of the document generation request, wherein the document type of</u>

18   <u>the second-level document and the transform used to generate the second-</u>

19   <u>level document are indicated by the document generation request;</u>

20   second tabular means for storing transform records; and

21   an interface coupling the second database ~~means~~ to the second tabular means.

1   59.   (Original)   A system as defined in Claim 58, further comprising:

2   a cache coupled to the first tabular means and to the second tabular means.

1   60.   (Currently Amended) A system as defined in Claim 58, wherein the

2   second database ~~means~~ stores a compilation of transforms that enable:

3   transforming an internal representation into at ~~lest~~ <u>least</u> one subscription-level

4   document, into a DEFAULT organization-level document and into at least

5   one user-specific organization-level document;

6   transforming the DEFAULT organization-level document into at least one

7   presentation-level document; and

8   transforming the user-specific organization-level document into at least one

9   presentation-level document.

1   61.   (Currently Amended) A system as defined in Claim 60, wherein the

2 second database ~~means~~ stores a compilation of transforms that enable:

3   (i) the internal representation to be transformed into a first subscription-level

4   document and into a second subscription-level document;

5   (ii) the first subscription level document to be transformed into a subscription-

6   level specific DEFAULT organization-level document and into at least

7   one user-specific organization-level document; and

8   (iii) the second organization-level document to be transformed into a subscription-

9   level-specific DEFAULT organization-level document.

1   62.   (Original)   A system as defined in Claim 61, further comprising:

2 a cache coupled to the first tabular means and to the second tabular means.

1   63.   (New) A document-generation process as defined in Claim 1 wherein

2 receiving a first request for a second-level document that depends from the first-level

3 document comprises:

4   receiving a first request from a client computer coupled to the computer system

5   for a second-level document that depends from the first-level document

1   64.   (New) A document-generation process as defined in Claim 1 further

2 comprising:

3   tracking the dependencies of a transformed document, wherein the transformed

4   document includes at least one or the first-level document and the second-

5   level document and the dependencies include the first-level document and

6   the internal representation; and

7   regenerating the transformed document when any dependency related to the

8   document changes.

1   65.   (New) A method of generating customized versions of a document using

2 a computer system as defined in Claim 8 wherein receiving a request to generate a

3 second-level document comprises:

4   receiving a request from a client computer coupled to the computer system to

5   generate a second-level document.

1   66.   (New) A method of generating customized versions of a document using

2 a computer system as defined in Claim 8 further comprising:

3   tracking the dependencies of a transformed document, wherein the transformed

4   document includes at least one or the first-level document and the second-

5   level document and the dependencies include the first-level document and

6   the internal representation; and

7   regenerating the second-level document when any dependency related to the

8   transformed document changes.

1   67.   (New) A method of generating customized versions of a document using

2 a computer system as defined in Claim 53 wherein receiving a request to generate a

3 second-level document comprises:

4   receiving a request from a client computer coupled to the computer system to

5   generate a second-level document.

1   68.   (New) A method of generating customized versions of a document using

2 a computer system as defined in Claim 53 further comprising:

3   tracking the dependencies of the transformed documents, wherein the transformed

4   documents include the subscription-level document, the DEFAULT

5   organization-level document, the user-specific organization-level

6   document, the presentation-level documents, and the dependencies include

7   the DEFAULT organization-level document, the user-specific

8   organization-level document, and the internal representation; and

9   regenerating the second-level document when any dependency related to the

10   transformed document changes.

1   69.   (New) A method of generating customized versions of a document using

2 a computer system as defined in Claim 53 wherein receiving a request to generate a

3 second-level document comprises:

4   receiving a request from a client computer coupled to the computer system to

5   generate a second-level document.

1   70.   (New) A system for the generation of customized data documents as

2 defined in Claim 58 further comprising:

3   a document dependency tracker and regenerator, coupled to the first and second

4   databases and first and second tabular means, to track the dependencies of

5   a transformed document, wherein the transformed document includes at

6   least one or the first-level document and the second-level document and

7   the dependencies include the first-level document and the internal

8   representation and to regenerate the transformed document when any

9   dependency related to the document changes.